

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	(tomonori adj arai).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/07 07:05
S2	53903	arai.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/07 07:05
S3	1	S2 and (sex with pheromone)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/07 07:06
S4	11525	tomonori.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/07 07:06
S5	0	S4 and (sex with attractant)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/07 07:14
S6	2625	424/405.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/07 07:15
S7	229	514/506.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/07 07:15
S8	444	514/529.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/07 07:15
S9	929	514/546.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/07 07:15
S10	512	514/549.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/07 07:15
S11	6	dimethylcyclobutylmethyl	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/07 07:18
S12	0	3-isopropenyl-2, 3-dimethylcyclobutylmethyl	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/07 07:17

S13	558	(sex with attractant)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/07 07:18
S14	48	S6 and S13	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/07 07:18
S15	0	S7 and S13	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/07 07:18
S16	3	S8 and S13	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/07 07:18
S17	9	S9 and S13	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/07 07:18
S18	8	S10 and S13	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/07 07:18



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12-14
ring bonds :
7-8 7-9 8-10 9-10
exact/norm bonds :
4-5 4-15 7-8 7-9 8-10 9-10
exact bonds :
1-3 1-2 1-16 3-4 5-6 6-7 7-18 9-11 9-17 10-12 10-19 12-13 12-14

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:Atom 8:Atom 9:Atom
10:Atom 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS
18:CLASS 19:CLASS

```

```

L1 STRUCTURE UPLOADED
=> d 11
L1 HAS NO ANSWERS
L1 STR

    CH2          O
                 |
                 H   CH2   CH2
                 |   / \   /
                 H   C     C
                  \   / \ /
                   Me  C     C
                      \ / /
                       Me  H
                         |
                         H

SEARCH TIME: 00.00.01          2 ANSWERS
100.0% PROCESSED 12 ITERATIONS
L2 2 SEA FAM FUL L1
=> d 12 1-2 ibib hitstr
'IBIB' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'
'HTSTR' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

```

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG	- RN
SAM	- Index Name, MF, and structure - no RN
FIDE	- All substance data, except sequence data
IDE	- FIDE, but only 50 names
SQIDE	- IDE, plus sequence data

Any CA file format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be listed first. The CA file predefined formats are:

ABS	-- Abstract
APPS	-- Application and Priority Information
BIB	-- CA Accession Number, plus Bibliographic Data
CAN	-- CA Accession Number
CBIB	-- CA Accession Number, Plus Bibliographic Data (compressed)
IND	-- Index Data
IPC	-- International Patent Classification
PATS	-- PT, SO
STD	-- BIB, IPC, and NCL
TABS	-- ABS, indented, with text labels
IBIB	-- BIB, indented, with text labels
ISTD	-- STD format, indented
OBIB	-- AN, plus Bibliographic Data (original)
OIBIB	-- OBIB, indented with text labels
SBIB	-- BIB, no citations
SIIB	-- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MX format is the same as ALL.

The IAU format is the same as ALL with BIB ABS and IND indented, with text labels.

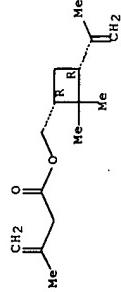
For additional information, please consult the following help messages:

=> d scan

HELP DFIELDS -- To see a complete list of individual display fields.  
 HELP FORMATS -- To see detailed descriptions of the predefined formats.  
 ENTER DISPLAY FORMAT (IDE): end

Absolute stereochemistry. Rotation (+).

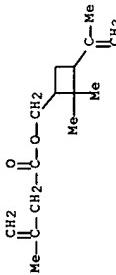
L2	2 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN	3-Butenoic acid, 3-methyl-, [(1R,3R)-2,2-dimethyl-1-(1-methylethoxy)cyclobutyl]methyl ester (9C1)
MF	C15 H24 O2



\*\* PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

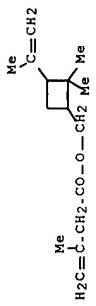
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1): 1

L2 2 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
IN 3-Butenoic acid, 3-methyl-, [2-(2-dimethyl-3-(1-methylprop-1-enyl)cyclobutyl)methyl ester (9CI)  
MF C15 H24 O2



TITLE: Novel ester compound as attractant of Pseudococcus  
cryptus  
INVENTOR(S): Arai, Tomonori  
PATENT ASSIGNEE(S): Incorporated Administrative Agency, National  
Agriculture and Bio-Oriented Research Organization,  
Japan  
SOURCE: PCT Int. Appl., 21 pp.  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004043896	A1	20040527	WO 2003-JP14303	20031111
JP 2004161654	A2	20040610	JP 2002-328482	20021112
GI			JP 2002-328482	A 20021112



\*\* PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> file hcapius uspatfull  
COST IN U.S. DOLLARS

SINCE FILE  
ENTRY  
TOTAL  
SESSION  
66.57  
66.78

FULL ESTIMATED COST

FILE 'HCAPIUS' ENTERED AT 06:29:29 ON 07 FEB 2006  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE 'USPATFULL' ENTERED AT 06:29:29 ON 07 FEB 2006  
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=> s 12

l3 3 L2

=> d 13 ibib abs hitstr

L3 ANSWER 1 OF 3 HC APIUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2004:428887 HC APIUS Full-text  
DOCUMENT NUMBER: 140:401774

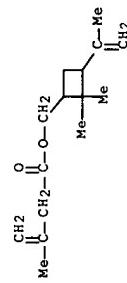
AB A novel ester compd. is 3-isopropenyl-2,2-dimethylcyclobutylmethyl 3-methyl-3-butenoate, and used as a sexual attractant. The compound is represented by the following formula (I).

IT 690242-72-9

RL: AGR (Agricultural use); BCP (Biochemical process); BIOL (Biological study); PROC (Process); USES (Uses)

RN 690242-72-9 HC APIUS  
(as attractant of Pseudococcus cryptus)

CN 3-Butenoic acid, 3-methyl-, [2-(2-dimethyl-3-(1-methylethoxy)cyclobutyl)methyl ester (SCI) (CA INDEX NAME)



REFERENCE COUNT:

3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

=> d his full

(FILE 'HOME' ENTERED AT 06:27:11 ON 07 FEB 2006)  
FILE 'REGISTRY' ENTERED AT 06:27:24 ON 07 FEB 2006

STRUCTURE UPLOADED

L1  
D 1.1  
2 SEA FAM FUL L1  
D SCAN

FILE 'HCAPLUS; USPATFULL;' ENTERED AT 06:29:29 ON 07 FEB 2006

3 SEA L2  
D L3 IBIB ABS HITSTR

FILE HOME

FILE REGISTRY  
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STRUCTURE FILE UPDATES: 5 FEB 2006 HIGHEST RN 873536-40-4  
DICTIONARY FILE UPDATES: 5 FEB 2006 HIGHEST RN 873536-40-4

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TSG INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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\*\*\*\*\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDE\_RL, is now \*  
\* available and contains the CA role and document type information. \*  
\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS  
for details.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

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FILE COVERS 1907 - 7 Feb 2006 VOL 144 ISS 7  
FILE LAST UPDATED: 6 Feb 2006 (2006206/ED)

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This file contains CAS Registry Numbers for easy and accurate  
substance identification.

FILE USPATFULL

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 2 Feb 2006 (20060202/PD)  
FILE LAST UPDATED: 2 Feb 2006 (20060202/ED)  
HIGHEST GRANTED PATENT NUMBER: US6993790

HIGHEST APPLICATION PUBLICATION NUMBER: US2006026727

CA INDEXING IS CURRENT THROUGH 2 Feb 2006 (20060202/UPCA)  
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 2 Feb 2006 (20060202/PD)  
REVISED CLASS FIELDS (/NCL) LAST RELOCATED: Dec 2005  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2005

=> d 13 1-3 ibib hitstr

L3 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2004128867 HCAPLUS Full-text  
DOCUMENT NUMBER: 140:401774

TITLE: Novel ester compound as attractant of Pseudococcus  
cryptus  
INVENTOR(S): Arai, Tomonori  
PATENT ASSIGNEE(S): Incorporated Administrative Agency, National  
Agriculture and Bio-Oriented Research Organization,  
Japan  
PCT Int. Appl., 21 pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:  
PATENT NO. KIND DATE APPLICATION NO. DATE  
WO 2004043896 A1 20040527 WO 2003-3P14303 20031111  
JP 2004161654 A2 20040610 JP 2002-328482 20021112  
PRIORITY APPLN. INFO.: IT 690242-72-9  
RL: AGR (Agricultural use); BCP (Biochemical process); BIOL (Biological  
study); PROC (Process); USES (Uses)  
RN 690242-72-9 HCAPLUS  
CN 3-Butenoic acid, 3-methyl-, [2,2-dimethyl-3-(1-  
methylpropenyl)cyclobutyl]methyl ester (9CI) (CA INDEX NAME)



SCAN must be entered on the same line as the DISPLAY,  
e.g., D SCAN or DISPLAY SCAN)

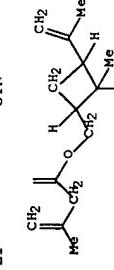
STD ----- BIB, CLASS  
  
IABS ----- ABS, indented with text labels  
IALL ----- ALL, indented with text labels  
IBIB ----- BIB, indented with text labels  
IMAX ----- MAX, indented with text labels  
ISTD ----- STD, indented with text labels  
  
OBIB ----- AN, plus Bibliographic Data (original)  
OBIB ----- OBIB, indented with text labels  
  
SIBIB ----- BIB, no citations  
SIBIB ----- IBIB, no citations  
  
HIT ----- Fields containing hit terms  
HITIND ----- IC, ICA, ICL, NCL, CC and index field (ST and IT)  
  
HITRN ----- HIT RN and its text modification  
HITSTR ----- HIT RN, its text modification, its CA index name, and  
its structure diagram  
HITSEQ ----- HIT RN, its text modification, its CA index name, its  
structure diagram, plus NTE and SEO fields  
FHITSTR ----- First HIT RN, its text modification, its CA index name, and  
its structure diagram  
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its  
structure diagram, plus NTE and SEQ fields  
KWIC ----- Hit term plus 20 words on either side  
OCC ----- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field  
codes. For a list of the display field codes, enter HELP DFIELD at  
an arrow prompt (>). Examples of formats include: TI; TI,AU; BIB;ST;  
TI,IND; TI,SO. You may specify the format fields in any order and the  
information will be displayed in the same order as the format  
specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITSTR,  
FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC  
to view a specified Accession Number.

ENTER DISPLAY FORMAT (BIB):end

=> d 11  
L1 HAS NO ANSWERS  
L1 STR



=> d his full

(FILE 'HOME' ENTERED AT 06:27:11 ON 07 FEB 2006)

FILE 'REGISTRY' ENTERED AT 06:27:24 ON 07 FEB 2006

STRUCTURE UPLOADED  
L1 D L1  
L2 2 SEA FAM FUL L1  
D SCAN

FILE 'HCAPLUS, USPATFULL' ENTERED AT 06:29:29 ON 07 FEB 2006

L3 3 SEA L2  
D L3 IBIB ABS HITSTR  
D L3 1-3 IBIB HITSTR  
D L1

FILE HOME

FILE REGISTRY  
Property values tagged with IC are from the ZIC/VINITI data file  
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STRUCTURE FILE UPDATES: 5 FEB 2006 HIGHEST RN 873536-40-4  
DICTIONARY FILE UPDATES: 5 FEB 2006 HIGHEST RN 873536-40-4

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\*\*\*\*\*

\* The CA roles and document type information have been removed from  
\* the IDB default display format and the ED field has been added,  
\* effective March 20, 2005. A new display format, IDERL, is now  
\* available and contains the CA role and document type information.  
\*  
\*\*\*\*\*  
\*\*\*\*\*

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for details.

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predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
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FILE COVERS 1907 - 7 Feb 2006 VOL 144 ISS 7  
FILE LAST UPDATED: 6 Feb 2006 (20060206/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE USPATFILE  
FILE COVERS 1971 TO PATENT PUBLICATION DATE: 2 Feb 2006 (20060202/PD)  
FILE LAST UPDATED: 2 Feb 2006 (20060202/ED)  
HIGHEST GRANTED PATENT NUMBER: US6931790  
HIGHEST APPLICATION PUBLICATION NUMBER: US2006026727  
CA INDEXING IS CURRENT THROUGH 2 Feb 2006 (20060202/IPC)  
ISSUE CLASS FIELDS ('INCL') CURRENT THROUGH: 2 Feb 2006 (20060202/IPC)  
REVISED CLASS FIELDS ('INCL') LAST UPDATED: Dec 2005  
USPTO MANUAL OF CLASSIFICATIONS, THESAURUS, ISSUE DATE: Dec 2005